



May 13, 2015

Submitted via email

Ellis Koch
Consulting Director
Posillico Consulting
1750 New Highway
Farmingdale, NY 11735

Subject: Captains Cove: Dvirka and Bartilucci Letter

Mr. Koch,

This report provides the results for SEC's investigation of the area and material discussed in the Dvirka and Bartilucci (D&B) March 13, 2001 letter and attachment (Letter, **Attachment 1**). The Letter identified an approximate 50-ft x 50-ft area located on the Captains Cove parcel that had been filled with dredge spoils circa 2001. The depth of the fill was not specified in the Letter. However, it mentions two test pits excavated in the 50x50-ft area to a 3-ft depth. That may be the depth of the fill.

The purpose of this investigation was to confirm that the dredge spoils were properly screened and that the radiological results presented in the Letter were accurate and consistent with the current findings and conclusions regarding the radiological status of this site.

During April 21-April 25, 2015 SEC was onsite to screen soil excavated from test pits installed to determine the permeability of the sediments in Captains Cove. As a backhoe was available it was used to expose subsurface soils as described ahead, so they could be observed and scanned for radioactivity.

Survey Activities

In order to rescan the area to confirm the Letter, on April 22, 2015 landmarks and site knowledge were used to locate the general vicinity where the dredge spoils were likely deposited. A 200 x 200 foot area was used to increase the likelihood that the original area of the fill would be included in the scan and a gamma walkover surface survey was conducted. Two test pits were also excavated to observe and scan a vertical profile of the soil. The locations are shown in **Attachment 2**.

The test pits were excavated where geotechnical borings CC-GI-008/009 were installed. Soil samples for metals analyses were collected from these borings, so no additional soil samples were collected from the test pits. The location of these borings and test pits is shown on **Attachment 3**.

The test pits were installed following the approved January 2013 Excavation Work Plan. A CAMP was performed with no exceedance of established screening levels detected. All excavated soil was stockpiled on a 6-mm thick polyethylene membrane while the scans were performed. The excavated material, demarcation membrane, and surficial cover were returned to the test pit in the order they were removed. No gross contamination was observed and all radioactivity readings were indistinguishable from background.

The results of the gamma scan are in **Attachment 2**. The average gamma count rate was 6,389 counts per minute (CPM), with a maximum of 11,025 cpm. These results are consistent with general area gamma background levels observed across the Li Tungsten Site including Captains Cove, and Parcels A and C.

Two 6-ft x 6-ft test pits were then excavated in 2-ft lifts to a depth of approximately 10-ft below ground



surface as the actual depth of the filled area was not known and the 10-ft depth provided a higher degree of certainty that the vertical profile of the fill was adequately scanned. A gamma scan was performed for each lift along with the sidewalls and floor in each test pit. All scan results were indistinguishable from background and consistent with the radioactivity levels documented in the Letter.

At the conclusion of the investigation, all personnel and equipment were scanned and verified to be free of radioactivity.

Based on the information collected, from a radiological standpoint the soil/materials contained within the targeted area are indistinguishable from background.

I hope the fieldwork just described provides the information needed to document that the dredge spoil fill does not pose a radiological risk.

Please contact me if you have any questions or comments.

Regards,

A handwritten signature in black ink, appearing to read "Eric J. Laning", is positioned below the "Regards," text.

Eric J. Laning
Technical Services Manager
Safety and Ecology Corporation

cc:

Myralee Machol, Glen Cove IDA Administrative Director



ATTACHMENT 1

Dvirka and Bartilucci Letter
March 13, 2001



9/30/03 TUE 14:28 FAX

001



Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045
e-mail: db-eng@worldnet.att.net

Principals

Nicholas J. Bartilucci, P.E.
Henry J. Chulpa, P.E.
Thomas F. Maher, P.E.
Robert T. Burns, P.E.
Richard M. Wicks
Steven A. Fargnoli, P.E.

Senior Associates

Anthony G. Corallo, P.E.
Dennis F. Koehler, P.E.
Joseph H. Marturano
Kenneth J. Prichard, P.E.
Theodore S. Pyler, Jr.

Associates

Rudolph F. Caravella
Joseph A. Farnell, P.E.
David S. Glass, P.E.
William D. Monahan, P.E.
Michael Neuharper, P.E.
Brian M. Voth, P.E.
Charles J. Wachsmuth, P.E.

Michael Mason
Bureau of Construction Services
Division of Environmental Remediation
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12

Re: Captain's Cove Site
Use of Sediment for Backfill
D&B 283-Q

Dear Mr. Mason:

Please find enclosed sample results of sediment dredged from Glen Cove Creek. While the sediment initially removed hydraulically in October does not meet the "Captain's Cove Soil Contaminant Concentration Values for Replacement of Residue Material," the City of Glen Cove would like to use the sediment recently removed mechanically in February as backfill on the Captain's Cove site.

As indicated on the sample result tables, all of the Captain's Cove replacement values are met except for selenium and silver which are only slightly above the criteria. This material would be placed below the final cover of two feet of clean soil. This request is consistent with the BUD approved for use of this sediment.

Also enclosed is the grain size analysis which indicates that the sediment removed in February would be physically suitable as backfill. Based on this analysis, Barbella Environmental Technologies has indicated willingness to use this sediment as backfill pending inspection of the material.

- ① Keep track of
Quantity placed
- ② COST To place
and compact
- ③ Trucking COST
- ④ Inquire as to
that material is
OK but out
of SPEC per
GRAIN SIZE

March 13, 2001

Post-It® Fax Note	7671	Date	9/30/03	# of pages	11
To	Qmar	From	Mike Mason		
Co./Dept.		Co.	NYSDEC		
Phone #		Phone #	(518) 462-9814		
Fax #	(431) 232-9898	Fax #			

A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

DATE

TIME

12/14/01

DAY SHIFT

Captain's Cove Condominium
Inactive Hazardous Waste Disposal Site Remedial Action
(Site No. 1-30-032)
Glen Cove, New York

RADIOLOGICAL SURVEY

TECHNICIAN

CRAFT

MODEL: Lcd 2221

INST NO: 97794

PROBE NO: 44-10 #292

CAL DUE DATE: 12/21/00

HKGIT

4120 cpm

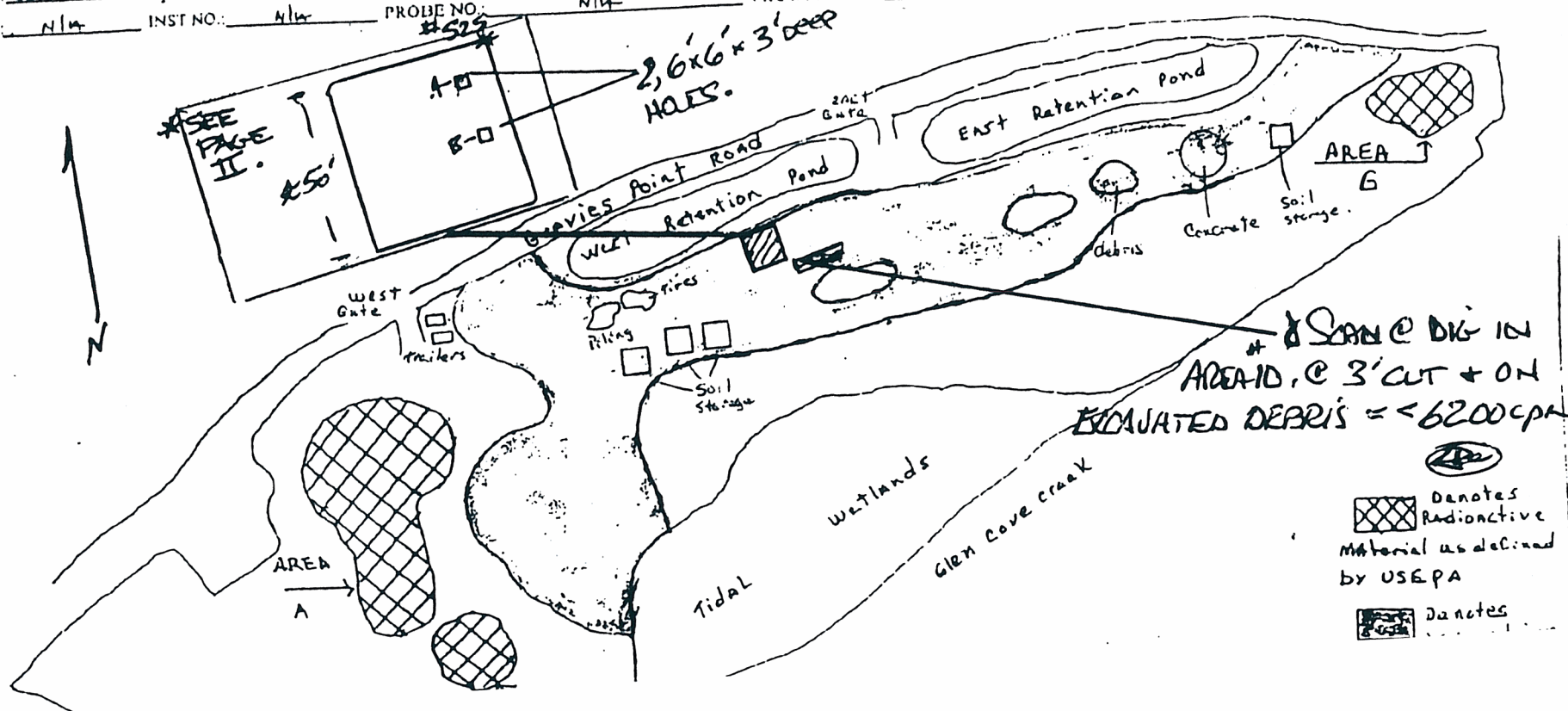
MODEL: N/A

INST NO: N/A

PROBE NO: N/A

CAL DUE DATE: N/A

HKGID

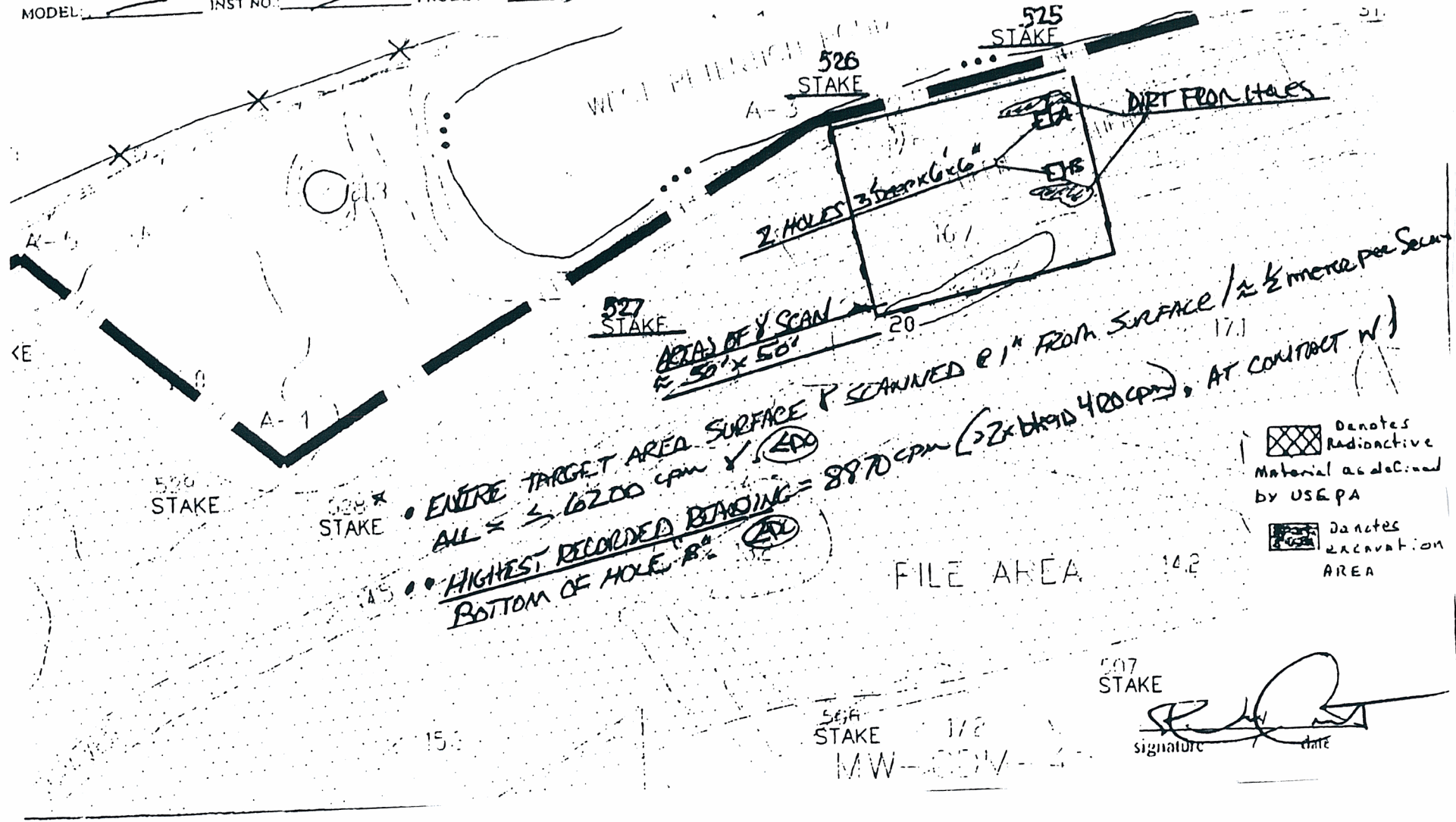


DATE: 09/10/01 TIME: 16:30

Captain's Cove Condominium
Inactive Hazardous Waste Disposal Site Remedial Action
(Site No. 1-30-032)
Glen Cove, New York

RADIOLOGICAL SURVEY

TECHNICIAN: ERNEST CRAFT
MODEL: HUD222 INST NO: 97799 PROBE NO: 44-10 * 292 CAL DUE DATE: 01/02/01 BKGD: 420 cpm
MODEL: INST NO: PROBE NO: CAL DUE DATE: BKGD:





ATTACHMENT 2

Gamma Walkover Results



Attachment 2 Gamma Walkover Results



	Number of Points	Minimum (CPM)	Maximum (CPM)	Average (CPM)	Median (CPM)	Standard Deviation (CPM)
Dredge Spoils Area	10,940	4,604	11,025	6,389	6,223	785



ATTACHMENT 3

Boring and Test Pit Locations



0 140 280 420 560 Feet



PWGC

Strategic Environmental and Engineering Solutions

P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue. • Suite 7
Bohemia • NY • 11716-2618
Phone: (631) 589-6353 • Fax: (631) 589-8705
E-mail: INFO@PWGROSSER.COM

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DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS
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DRAWING INFORMATION:

Project:	RG11502	Designed by:	AJR
Date:	5/11/2015	Drawn by:	JCG
Scale:	AS SHOWN	Approved by:	DE

**EXTENT OF
RADIOLOGICAL
SCREENING
GLEN ISLE**

FIGURE NO:

1

SHEET:

Purpose

- GeoTech Boring & Confirmation Test Pits
- ▭ Screening Area
- Proposed Easement
- Curbline

Document Path: G:\Projects\W-R\RG11502\mapfiles\FIG1_GeoTech_RadScreening.mxd